

ABSTRACT OF THE DISCLOSURE

The present invention relates to the use of a class of genes called oil
5 body protein genes that have unique features. The discovery of these features
allowed the invention of methods for the production of recombinant proteins
wherein a protein of interest can be easily separated from other host cell
components. The invention is further exemplified by methods for exploitation
of the unique characteristics of the oil body proteins and oil body genes for
10 expression of polypeptides of interest in many organisms, particularly plant
seeds. Said polypeptides include thioredoxin and/or thioredoxin reductase. The
invention can also be modified to recover recombinant polypeptides fused to oil
body proteins from non-plant host cells.